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10/088,687	03/21/2002	Brian R. Odgers	36-1531	4659
23117 NIXON & VAN	7590 04/19/2007 NDERHYE, PC	EXAMINER		
901 NORTH GLEBE ROAD, 11TH FLOOR			BOYCE, ANDRE D	
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Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

		Application No.	Applicant(s)		
Office Action Summary		10/088,687	ODGERS ET AL.		
		Examiner	Art Unit		
		Andre Boyce	3623		
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply					
A SHI WHIC - Exter after - If NO - Failu Any r	ORTENED STATUTORY PERIOD FOR REPLY CHEVER IS LONGER, FROM THE MAILING DATE in a sign of time may be available under the provisions of 37 CFR 1.13 SIX (6) MONTHS from the mailing date of this communication. It period for reply is specified above, the maximum statutory period vere to reply within the set or extended period for reply will, by statute eply received by the Office later than three months after the mailing and patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tirr vill apply and will expire SIX (6) MONTHS from , cause the application to become ABANDONEI	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).		
Status					
 Responsive to communication(s) filed on 10 January 2007. This action is FINAL. 2b) This action is non-final. Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. 					
Dispositi	on of Claims				
4) Claim(s) 1-22 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) Claim(s) is/are allowed. 6) Claim(s) 1-22 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/or election requirement. Application Papers					
10)□	The specification is objected to by the Examine The drawing(s) filed on is/are: a) accomplicant may not request that any objection to the Replacement drawing sheet(s) including the correct The oath or declaration is objected to by the Example 2.	epted or b) objected to by the Eddrawing(s) be held in abeyance. See ion is required if the drawing(s) is obj	e 37 CFR 1.85(a). jected to. See 37 CFR 1.121(d).		
Priority u	ınder 35 U.S.C. § 119				
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 					
Attachment	t(s) e of References Cited (PTO-892)	4) Interview Summary	(PTO_413)		
2) Notice 3) Inform	e of References Cited (P10-692) e of Draftsperson's Patent Drawing Review (PT0-948) nation Disclosure Statement(s) (PT0/SB/08) r No(s)/Mail Date	4) interview Summary Paper No(s)/Mail Da 5) Notice of Informal P	ate		

DETAILED ACTION

Response to Amendment

- This Non-Final office action is in response to Applicant's amendment filed
 January 10, 2007. Claims 1, 3, 11, 13 and 15-19 have been amended. Claims 20 22 have been added. Claims 1-22 are pending.
- 2. The previously pending objections to claims 4-10 and 14 have been withdrawn.

 The previously pending rejection to claim 3 under 35 USC §112, second paragraph has been withdrawn.
- 3. Applicant's arguments filed January 10, 2007 have been fully considered but they are not persuasive and claims 4-10 and 14 are now rejected under Du et al (USPN 5,826,239).

Claim Rejections - 35 USC § 102

- 4. The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.
- 5. Claims 1-17 and 19-22 are rejected under 35 U.S.C. 102(b) as being anticipated by Du et al (US 5,826,239).

As per claims 1, 11, 15 and 19, Du teaches storing constraint definition data defining constraints relating to availability of said resources for allocation to respective tasks; (column 9, lines 43-45 where HP OpenPM evaluates the rules and

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performs the rule actions when the rule conditions are met, whereby the rule conditions constitute the constraints of the resource allocation system.); storing an initial data representation of resource availability (column 4, lines 27-28 where the system checks a central site for availability of resource groups, whereby the central site constitutes a storage of initial data); receiving from a resource interface, availability data concerning availability of a resource (column 8, lines 35-38, where the work nodes include resource allocation which constitutes the receipt of available resources as further indicated in Figure 2, where the resource managers (28) resolve resource assignment requests); generating a proposed data representation of resource availability, based on the initial data representation together with said availability data (column 13, lines 6-8, where resource status or availability is provided); determining whether said proposed data representation is compatible with said constraint definition data (column 4, lines 57-67 and column 5, line 1, where the system determines the resource availability with respect to the specified activity and forwards the information to the second computer to assign the resource to the activity.); in the case the data is compatible with the constraint definition data, substituting the proposed data representation for the initial data representation to generate a new initial data representation (column 4, lines 57-67 and column 5, lines 1-5, where the LRM system assigns the available resources and updates the data in the second computer accordingly.); and in the case the data is not compatible with the constraint definition data, transmitting a rejection signal to at least one resource interface (column 3, lines 34-38 where the tasks are gueued when they do not meet

the constraints or resource requirements. This is equivalent to sending a reject signal as it performs an identical function in substantially the same manner with substantially the same results. The main purpose of sending the reject signal is to alert the user that resources were not assigned to the task and the purpose for the queue system is the same. Resources were not available to be assigned to the task, but the task is posted in a queue to obtain resources when they become available.).

As per claims 2 and 12, Du teaches receiving from one resource interface further availability data concerning availability of a resource, generating a further proposed data representation of resource availability, based on the initial data representation together with said further availability data (column 4, lines 57-67 and column 5, lines 1-5, where the LRM system assigns the available resources and updates the data in the second computer accordingly. The updated information would function as further availability data since the computer updates the resources and activities with respect to availability information as the information changes.).

As per claims 3 and 13, recites the same limitations as claim 1 and is therefore subject to the same art rejection. Du teaches multiple resource interfaces in Figure 1 where there are multiple users and machines.

As per claim 4, Du teaches at least one resource interface is provided with at least one resource profile, the resource profile comprising data in respect of a resource (i.e., local resource manager (LRM) including resource database 150, column 13, lines 41-47), the method further comprising the steps of: receiving at a resource interface a rejection signal (i.e., unavailable resource state, column 15,

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lines 55-60); reviewing a resource profile provided with respect to that resource interface; and outputting availability data to the data processing means dependent on the outcome of the review (i.e., LRM tracks dynamic status information including availability and work load, column 13, lines 43-47).

As per claim 5, Du teaches at least first and second data types in respect of a resource, the first data type comprising at least one resource attribute (i.e., resource name and capability, column 15, line 1) and the second data type comprising availability commitments of the resource (i.e., resource status, column 15, line 1).

As per claim 6, Du teaches a priority indicator for at least one availability commitment of the resource, and wherein said step of reviewing a resource profile comprises reviewing the priority indicator (i.e., two aspects of resource status including state and load, column 15, lines 50-54).

As per claim 7, Du teaches said rejection signal comprises an identifier for a selected resource, or for a selected set of resources (i.e., state of the resources including not available, column 15, lines 50-59), and wherein said steps of reviewing a resource profile and outputting availability data to the data processing means dependent on the outcome of the review comprise reviewing the resource profile for the presence of said identifier and outputting availability data only if said identifier is present (e.g., state(R) and load (R) to denote the current state and load of R, column 15, lines 50-54).

As per claim 8, Du teaches subsequent to generating and transmitting said rejection signal, triggering termination of tasks being carried out in respect of a

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common work requirement to which the rejection signal is related (i.e., trigger implementation, column 18, lines 51-57).

As per claim 9, Du teaches said step of triggering termination is carried out after a predetermined time has elapsed during which no availability data has been received from a resource interface (i.e., temporal status specification, column 16, lines 37-40).

As per claim 10, Du teaches said constraint definition data comprises at least two sets of constraint definition data (i.e., state and load data, column 15, lines 50-54), and the method further comprises: receiving via a user interface a proposed modification to a first set of constraint definition data (i.e., predictable change status, column 16, lines 30-32); reviewing the proposed modification against the second set of constraint definition data; in the case that the proposed modification is compatible with the second set, modifying the first set accordingly; and in the case that the proposed modification is not compatible with the second set, transmitting a rejection signal to the user interface (i.e., determination of whether the change status state is available or not available, column 16, lines 33-37).

As per claim 14, Du teaches a resource profile comprises at least one data element and a rejection message comprises at least one data element (i.e., attributes of the resource, column 15, line 1), review of a resource profile comprising matching the data element from a rejection message against the data element or elements in a resource profile (i.e., match against status and capability of the resource).

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As per claim 16, Du teaches the signal input is also for receiving a management signal input from at least one management interface, one or more of said management signals comprising constraint data with respect to at least one resource, and the apparatus further comprises means for using constraint data received from a management interface to enter or change data in the constraint definition data store (column 19, lines 60-67 where OpenPM contains a rule node which contains a list of condition-action rules or constraints and as indicated in Figure 4 there is a database manager (64) that interacts with the OpenPM database which contains the constraint definition data. In addition, column 9, lines 30-34 teach that the system can interact with external environments.), and means to categorize data in the constraint definition data store according to source type (column 17, lines 40-43 where each resource group has an ID associated with it that acts as a means of sorting or categorizing the constraint information), the apparatus being further arranged, on review of the content of the constraint definition data store, to resolve any conflict in constraint data relevant to a task acceptance signal according to its source type (column 10, lines 48-56 where the resource managers (28) are used to resolve any conflicts between the constraints and the resources so that the resources can be assigned.).

As per claim 17, Du teaches the constraint definition data store is categorized by location in the store. (As noted in Figure 1, the system contains databases. It is well known that databases store information in files where each file would have a unique "address" or location in the database.)

As per claims 20 and 21, Du teaches said constraint definition data define constraints, relating to the allocation of tasks to respective resources (LRM with control over resources, column 13, lines 41-43).

As per claim 22, Du teaches a task acceptance signal from a resource interface and wherein the apparatus is arranged in use to respond to receipt of a task acceptance signal by reviewing the content of the constraint definition data store and, depending on the result of the review to output to at least one resource interface a notification signal identifying at least one task for which resource is required, or to allocate resource to a task (i.e., task status state and load, including task availability, wherein the task being available would include task acceptance, column 15, lines 50-59).

Claim Rejections - 35 USC § 103

6. Claim 18 is rejected under 35 U.S.C. 103(a) as being unpatentable over Du et al (US 5,826,239).

As per claim 18, Du teaches the source of data in the third category being requirements of an operational support system for use in performing allocated task(s) (column 11, lines 37-50 where the service management layer (102) functions as a support system for performing the tasks) and the apparatus is further adapted to store at least a third category of data in the constraint definition data store (column 9, lines 41-44 where the system evaluates the rules or constraints and performs the rule actions when the rule conditions are met. Whereby "rules"

indicates more than one rule.) Official notice is taken that it is old and well known that "rules" may indicate three or more. Therefore it would have been obvious to one of ordinary skill in the art to modify the system of Du with three (or more) rules to provide means for allowing more constraints and consequently, more accurate resource allocation results.

Response to Arguments

7. In the Remarks, Applicant argues that there is no suggestion in Du et al that the local resource manager should react to the unpredictable failure by testing the resultant aggravated availability or workload against predetermined constraints, and if that test fails, to send a rejection signal to the resource. The Examiner respectfully disagrees and submits that Du et al disclose unpredictable status changes, wherein the resource can become not available (column 16, lines 57-61), thus indicating a rejection.

Conclusion

8. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Andre Boyce whose telephone number is (571) 272-6726. The examiner can normally be reached on 9:30-6pm M-F.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Tariq Hafiz can be reached on (571) 272-6729. The fax phone number

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for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

adb April 15, 2007 ANDRE BOYCE
PATENT EXPRINED
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